Vector Aviation VAAC Advisories - v2

Domain Portfolio: Weather Imagery | Domain: Aviation | API Name: Vector Aviation VAAC Advisories - v2

Geography: Global **Attribution Required:** NO **Attribution Requirements:** N/A

Overview

The Feature Data Service (FDS) API provides geographic features for a number of products. The client can use these features to render a visual representation of data.

- FDS provides geometric vector data where each feature can be a set of points, a polygon or set of polygons, a linestring or set of linestrings, or any other valid GeoJSON type
- Each feature is described by a set of geographic coordinates and a set of properties.
- Each feature is uniquely identified by the *combination* of its product key, feature key and valid time; the valid time is used to assign the feature to a unique feature set.
- For additional details about FDS, please see the Weather Company Data | Data Visualization - Weather Imagery | Common Usage Guide

Using FDS products requires a multi-step workflow to retrieve the necessary data for the specific product data request. Step 2 requires the **'time'** value parameter, found in the response from Step 1.

- **Step 1:** Get Product Info - Provides time-based labels for the feature sets that are currently available.
- **Step 2:** Get Features for a Single Tile - Provides all geographic features for a single tile, taken from a single feature set within a specific product.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

URL Construction

Step 1: Get Product Info
Required Parameters: **productKey,** apiKey=**yourApiKey** || **Optional Parameters:** meta, max-times https://api.weather.com/v2/vector-api/products/**<productKey>**/info?**apiKey=yourApiKey**
The [**/products/{productKey}/info**] request provides the labels for the feature sets that are currently available. These labels are required as input for the subsequent [**/products/{productKey}/features**] request, and they are invoked in that request's **'time'** parameter.
https://api.weather.com/v2/vector-api/products/6015/info?meta=true&max-times=12&apiKey=yourApiKey
Step 2: Get Features for a Single Tile
Required Parameters: **productKey, time, lod, x, y,** apiKey=**yourApiKey** || **Optional Parameters:** declutter, tile-size https://api.weather.com/v2/vector-api/products/**<productKey>**/features?time=**<time>**&lod=**<lod>**&x=**<x>**&y=**<y>**&**apiKey=yourApiKey**
The [**/products/{productKey}/features**] request provides a set of features for a single tile, from a particular feature set within a particular product. Each feature contains a small set of key metadata properties, including its ID and valid time, which are required as input for any subsequent [**/products/{productKey}/feature-details**] request, as the **'feature-id'** and **'valid-time'** parameters.
https://api.weather.com/v2/vector-api/products/6015/features?time=1492016701805&lod=10&x=175&y=409&tile-size=256&apiKey=yourApiKey

Product Data Dictionary: 6015 - Aviation VAAC Advisories

The source of the data is one of nine Volcanic Ash Advisory Centers worldwide. Each VAAC is responsible for providing Volcanic Ash Advisories whenever a volcanic event occurs in their area of responsibility. VAAC advisories are made available as they are received.

The JSON data includes the following fields:

Field *Found in the GeoJSON response, in each feature's* ***properties*** *field*	**Description**
advisory_num	Volcanic Ash Advisory number
alert_coding	Alert code
area_name	Name of country or geographical region
eruption_details	Details of eruption, emissions, ash cloud
icao_site_id	VAAC ICAO code
id	Unique identifier of the record
next_issuance	Time of next advisory issuance
raw_data	Raw Volcanic Ash Advisory data
remarks	VAAC remarks
source	Information source such as satellite imagery or webcam
upper_level_winds	Direction and speed of upper-level winds
vaac_name	Name of VAAC
valid_time	Time of Volcanic Ash Advisory issuance
volcano_elev	Summit elevation of volcano
volcano_id	Volcano ID number
volcano_name	Name of volcano